



results of BLAST

BLASTP 2.2.9 [May-01-2004]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1084305495-12990-214576012592.BLASTQ3

Query=

(54 letters) *Residues 138-191 Seq ID NO:206*

Database: All non-redundant GenBank CDS

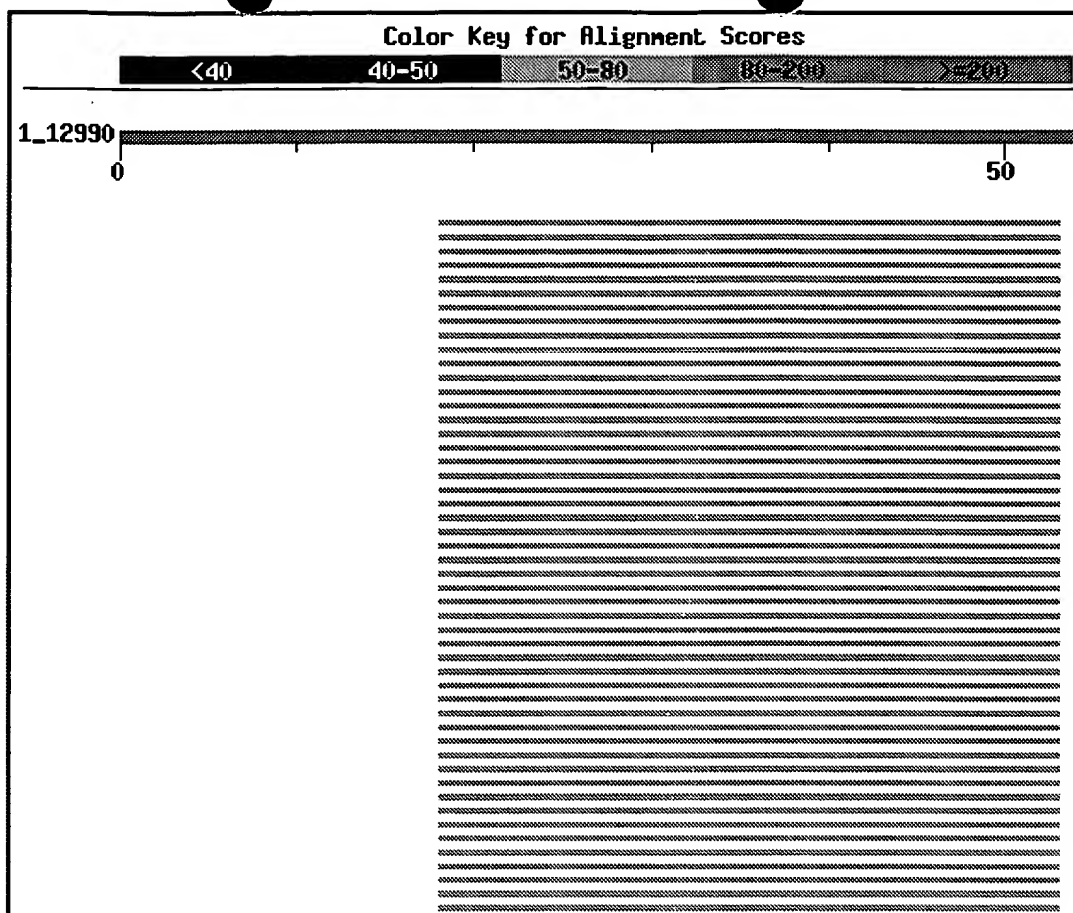
translations+PDB+SwissProt+PIR+PRF excluding environmental samples
1,798,171 sequences; 593,787,773 total letters

If you have any problems or questions with the results of this search please refer to the [BLAST FAQs](#)

[Taxonomy reports](#)

Distribution of 100 Blast Hits on the Query Sequence

Mouse-over to show define and scores. Click to show alignments



Sequences producing significant alignments:		Score (bits)	E Value
gi 532381 gb AAA21037.1	polyprotein	77	1e-13
gi 1246371 dbj BAA09974.1	polyprotein [Hepatitis C virus]	77	1e-13
gi 1724052 gb AAB40071.1	core protein [Hepatitis C virus]	76	2e-13
gi 1009261 dbj BAA07091.1	core, env and part of E2/NS1 [He...	76	2e-13
gi 532455 gb AAA21074.1	polyprotein	76	2e-13
gi 1009257 dbj BAA07089.1	core, env, and part of E2/NS1 [He...	75	3e-13
gi 974347 gb AAB40038.1	core protein [Hepatitis C virus ty...	75	3e-13
gi 2326455 emb CAA72801.1	polyprotein [Hepatitis C virus t...	75	3e-13
gi 1765870 dbj BAA13616.1	core, env, and part of E2/NS1 [He...	75	4e-13
gi 3550763 dbj BAA32666.1	polyprotein [Hepatitis C virus]	75	4e-13
gi 600265 dbj BAA13617.1	core, env and part of E2/NS1 [Hep...	75	4e-13
gi 1765879 dbj BAA13621.1	core, env and part of E2/NS1 [He...	75	4e-13
gi 1009271 dbj BAA07271.1	core, env and part of E2/NS1 [He...	75	4e-13
gi 21670895 dbj BAC02457.1	polyprotein [Hepatitis C virus ...	75	4e-13
gi 1765868 dbj BAA13615.1	core, env and part of E2/NS1 [He...	75	4e-13
gi 14161281 gb AAK54688.1	polyprotein [Hepatitis C virus]	75	4e-13
gi 3550765 dbj BAA32667.1	polyprotein [Hepatitis C virus]	75	5e-13
gi 1009263 dbj BAA07092.1	core, env and part of E2/NS1 [He...	75	5e-13
gi 1066620 gb AAC42194.1	core protein	75	5e-13
gi 3550761 dbj BAA32665.1	polyprotein [Hepatitis C virus]	75	5e-13
gi 1009259 dbj BAA07090.1	core, env and part of E2/NS1 [He...	75	5e-13
gi 1066604 gb AAC42186.1	core protein	75	5e-13
gi 601937 dbj BAA06739.1	core, env and part of E2/NS1 [Hep...	75	5e-13

<u>gi 1765889 dbj BAA13626.1 </u>	core, env and part of E2/NS1 [He...	<u>74</u>	6e-13
<u>gi 1765883 dbj BAA13623.1 </u>	core, env and part of E2/NS1 [He...	<u>74</u>	6e-13
<u>gi 532457 gb AAA21075.1 </u>	polyprotein	<u>74</u>	6e-13
<u>gi 3550759 dbj BAA32664.1 </u>	polyprotein [Hepatitis C virus]	<u>74</u>	7e-13
<u>gi 532459 gb AAA21076.1 </u>	polyprotein	<u>74</u>	7e-13
<u>gi 532465 gb AAA21079.1 </u>	polyprotein	<u>74</u>	7e-13
<u>gi 1246377 dbj BAA09976.1 </u>	polyprotein [Hepatitis C virus]	<u>74</u>	8e-13
<u>gi 1480851 gb AAB88630.1 </u>	polyprotein	<u>74</u>	8e-13
<u>gi 532383 gb AAA21038.1 </u>	polyprotein	<u>74</u>	9e-13
<u>gi 532463 gb AAA21078.1 </u>	polyprotein	<u>74</u>	1e-12
<u>gi 21670857 dbj BAC02438.1 </u>	polyprotein [Hepatitis C virus ...	<u>74</u>	1e-12
<u>gi 1765866 dbj BAA13614.1 </u>	core, env and part of E2/NS1 [He...	<u>74</u>	1e-12
<u>gi 3283982 gb AAC25417.1 </u>	core protein [Hepatitis C virus]	<u>74</u>	1e-12
<u>gi 1765875 dbj BAA13619.1 </u>	core, env and part of E2/NS1 [He...	<u>74</u>	1e-12
<u>gi 1765877 dbj BAA13620.1 </u>	core, env and part of E2/NS1 [He...	<u>74</u>	1e-12
<u>gi 18148524 dbj BAB83298.1 </u>	core protein [Hepatitis C virus]	<u>74</u>	1e-12
<u>gi 21670875 dbj BAC02447.1 </u>	polyprotein [Hepatitis C virus ...	<u>74</u>	1e-12
<u>gi 1009265 dbj BAA07093.1 </u>	core, env and part of E2/NS1 [He...	<u>74</u>	1e-12
<u>gi 1009267 dbj BAA07094.1 </u>	core, env, and part of E2/NS1 [He...	<u>73</u>	1e-12
<u>gi 18148498 dbj BAB83285.1 </u>	core protein [Hepatitis C virus...	<u>73</u>	1e-12
<u>gi 18148512 dbj BAB83292.1 </u>	core protein [Hepatitis C virus]	<u>73</u>	1e-12
<u>gi 21670879 dbj BAC02449.1 </u>	polyprotein [Hepatitis C virus ...	<u>73</u>	1e-12
<u>gi 18148514 dbj BAB83293.1 </u>	core protein [Hepatitis C virus]	<u>73</u>	1e-12
<u>gi 18148506 dbj BAB83289.1 </u>	core protein [Hepatitis C virus...	<u>73</u>	1e-12
<u>gi 18148725 dbj BAB83394.1 </u>	core protein [Hepatitis C virus]	<u>73</u>	1e-12
<u>gi 18148534 dbj BAB83303.1 </u>	core protein [Hepatitis C virus]	<u>73</u>	1e-12
<u>gi 1480853 gb AAB88631.1 </u>	polyprotein	<u>73</u>	1e-12
<u>gi 2580421 dbj BAA23132.1 </u>	polyprotein [Hepatitis C virus]	<u>73</u>	2e-12
<u>gi 1009255 dbj BAA07088.1 </u>	polyprotein [Hepatitis C virus]	<u>73</u>	2e-12
<u>gi 532445 gb AAA21069.1 </u>	polyprotein	<u>73</u>	2e-12
<u>gi 1480855 gb AAB88632.1 </u>	polyprotein	<u>73</u>	2e-12
<u>gi 974349 gb AAB40039.1 </u>	core protein [Hepatitis C virus ty...	<u>73</u>	2e-12
<u>gi 2252490 emb CAA72338.1 </u>	HCV polyprotein [Hepatitis C vir...	<u>73</u>	2e-12
<u>gi 1480857 gb AAB88633.1 </u>	polyprotein	<u>73</u>	2e-12
<u>gi 21670893 dbj BAC02456.1 </u>	polyprotein [Hepatitis C virus ...	<u>73</u>	2e-12
<u>gi 37961928 gb AAP69953.1 </u>	polyprotein [Hepatitis C virus]	<u>73</u>	2e-12
<u>gi 27531310 dbj BAC54267.1 </u>	poly protein [Hepatitis C virus...	<u>72</u>	2e-12
<u>gi 532461 gb AAA21077.1 </u>	polyprotein	<u>72</u>	2e-12
<u>gi 1765891 dbj BAA13627.1 </u>	core, env and part of E2/NS1 [He...	<u>72</u>	2e-12
<u>gi 9864799 gb AAB32183.2 </u>	putative core protein [Hepatitis ...	<u>72</u>	2e-12
<u>gi 23328866 gb AAC42195.2 </u>	core protein [Hepatitis C virus]	<u>72</u>	2e-12
<u>gi 1183031 dbj BAA09891.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	2e-12
<u>gi 913996 gb AAB34375.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	3e-12
<u>gi 42411775 gb AAS15412.1 </u>	core protein [Hepatitis C virus]	<u>72</u>	3e-12
<u>gi 532385 gb AAA21039.1 </u>	polyprotein >gi 42411745 gb AAS153...	<u>72</u>	3e-12
<u>gi 296898 emb CAA50610.1 </u>	nucleocapsid protein [synthetic c...	<u>72</u>	3e-12
<u>gi 42411777 gb AAS15413.1 </u>	core protein [Hepatitis C virus]	<u>72</u>	3e-12
<u>gi 7274365 gb AAF44740.1 </u>	core structural protein [Hepatiti...	<u>72</u>	3e-12
<u>gi 42411565 gb AAS15307.1 </u>	core protein [Hepatitis C virus]	<u>72</u>	3e-12
<u>gi 13958007 gb AAK50756.1 </u>	core protein [Hepatitis C virus]	<u>72</u>	3e-12
<u>gi 1944376 dbj BAA19625.1 </u>	unnamed protein product [Hepatit...	<u>72</u>	3e-12
<u>gi 42411147 gb AAS15098.1 </u>	core protein [Hepatitis C virus]	<u>72</u>	3e-12
<u>gi 27544244 dbj BAC54896.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	3e-12
<u>gi 42411769 gb AAS15409.1 </u>	core protein [Hepatitis C virus]	<u>72</u>	3e-12
<u>gi 1066588 gb AAC42178.1 </u>	core protein	<u>72</u>	3e-12
<u>gi 13957999 gb AAK50752.1 </u>	core protein [Hepatitis C virus]...	<u>72</u>	3e-12
<u>gi 974345 gb AAB40037.1 </u>	core protein [Hepatitis C virus ty...	<u>72</u>	3e-12
<u>gi 130458 sp P26663 POLG HCVBK</u>	Genome polyprotein [Contains...	<u>72</u>	3e-12
<u>gi 532395 gb AAA21044.1 </u>	polyprotein	<u>72</u>	3e-12
<u>gi 7650242 gb AAF65952.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	3e-12

gi 27531322 dbj BAC54273.1 	poly protein [Hepatitis C virus...	<u>72</u>	3e-12
gi 7650248 gb AAF65955.1 	polyprotein [Hepatitis C virus]	<u>72</u>	3e-12
gi 5918963 gb AAD56197.1 	polyprotein [Hepatitis C virus]	<u>72</u>	3e-12
gi 5918961 gb AAD56196.1 	polyprotein [Hepatitis C virus]	<u>72</u>	3e-12
gi 7650224 gb AAF65943.1 	polyprotein [Hepatitis C virus]	<u>72</u>	3e-12
gi 320211 pir JH0711	genome polyprotein - hepatitis C viru...	<u>72</u>	3e-12
gi 7650256 gb AAF65959.1 	polyprotein [Hepatitis C virus]	<u>72</u>	4e-12
gi 42411919 gb AAS15484.1 	core protein [Hepatitis C virus]	<u>72</u>	4e-12
gi 21670865 dbj BAC02442.1 	polyprotein [Hepatitis C virus ...]	<u>72</u>	4e-12
gi 794209 gb AAA65812.1 	precursor protein	<u>72</u>	4e-12
gi 1765887 dbj BAA13625.1 	core, env and part of E2/NS1 [He...	<u>72</u>	4e-12
gi 5918939 gb AAD56185.1 	polyprotein [Hepatitis C virus]	<u>72</u>	4e-12
gi 5918937 gb AAD56184.1 	polyprotein [Hepatitis C virus]	<u>72</u>	4e-12
gi 42411423 gb AAS15236.1 	core protein [Hepatitis C virus]	<u>72</u>	4e-12
gi 42411673 gb AAS15361.1 	core protein [Hepatitis C virus]...	<u>72</u>	4e-12
gi 1009269 dbj BAA07095.1 	core, env and part of E2/NS1 [He...	<u>72</u>	4e-12
gi 1765885 dbj BAA13624.1 	core, env and part of E2/NS1 [He...	<u>72</u>	4e-12

Alignments

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☐ [>gi|532381|gb|AAA21037.1|](#) polyprotein
Length = 191

Score = 76.6 bits (187), Expect = 1e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ [>gi|1246371|dbj|BAA09974.1|](#) polyprotein [Hepatitis C virus]
Length = 191

Score = 76.6 bits (187), Expect = 1e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ [>gi|1724052|gb|AAB40071.1|](#) core protein [Hepatitis C virus]
Length = 191

Score = 75.9 bits (185), Expect = 2e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1009261|dbj|BAA07091.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.9 bits (185), Expect = 2e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|532455|gb|AAA21074.1| polyprotein
Length = 191

Score = 75.9 bits (185), Expect = 2e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1009257|dbj|BAA07089.1| core, env, and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.5 bits (184), Expect = 3e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|974347|gb|AAB40038.1| core protein [Hepatitis C virus type 6]
Length = 191

Score = 75.5 bits (184), Expect = 3e-13
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLAL SCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALFSCLTTPASA 191

☐ >gi|2326455|emb|CAA72801.1| polyprotein [Hepatitis C virus type 6a]
Length = 3018

Score = 75.5 bits (184), Expect = 3e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA

Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1765870|dbj|BAA13616.1| core, env, and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 75.1 bits (183), Expect = 4e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|3550763|dbj|BAA32666.1| polyprotein [Hepatitis C virus]
Length = 3016

Score = 75.1 bits (183), Expect = 4e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|600265|dbj|BAA13617.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.1 bits (183), Expect = 4e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1765879|dbj|BAA13621.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.1 bits (183), Expect = 4e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1009271|dbj|BAA07271.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.1 bits (183), Expect = 4e-13
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R IEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >[gi|21670895|dbj|BAC02457.1|](#) polyprotein [Hepatitis C virus type 1b]
Length = 191

Score = 75.1 bits (183), Expect = 4e-13
Identities = 34/36 (94%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RALEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >[gi|1765868|dbj|BAA13615.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 74.7 bits (182), Expect = 4e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >[gi|14161281|gb|AAK54688.1|](#) polyprotein [Hepatitis C virus]
Length = 195

Score = 74.7 bits (182), Expect = 4e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLT PASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTVPASA 191

☐ >[gi|3550765|dbj|BAA32667.1|](#) polyprotein [Hepatitis C virus]
Length = 3015

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >[gi|1009263|dbj|BAA07092.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 74.7 bits (182), Expect = 5e-13

Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RALEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1066620|gb|AAC42194.1| core protein
Length = 319

Score = 74.7 bits (182), Expect = 5e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|3550761|dbj|BAA32665.1| polyprotein [Hepatitis C virus]
Length = 3013

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1009259|dbj|BAA07090.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIFLLAL SCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALFSCLTTPASA 191

☐ >gi|1066604|gb|AAC42186.1| core protein
Length = 319

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|601937|dbj|BAA06739.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1765889|dbj|BAA13626.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 74.3 bits (181), Expect = 6e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1765883|dbj|BAA13623.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 74.3 bits (181), Expect = 6e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|532457|gb|AAA21075.1| polyprotein
Length = 191

Score = 74.3 bits (181), Expect = 6e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLT PASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTVPASA 191

☐ >gi|3550759|dbj|BAA32664.1| polyprotein [Hepatitis C virus]
Length = 3019

Score = 74.3 bits (181), Expect = 7e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDGINYATGNLPGCSFSIF+LALLSCLTTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFILALLSCLTTPASA 191

☐ >gi|532459|gb|AAA21076.1| polyprotein
Length = 191

Score = 74.3 bits (181), Expect = 7e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLAL SCLTTPASA
Sbjct: 156 RALEDGINYATGNLPGCSFSIFLLALFSCLTTPASA 191

☐ >gi|532465|gb|AAA21079.1| polyprotein
Length = 191

Score = 73.9 bits (180), Expect = 7e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLT PASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTVPASA 191

☐ >gi|1246377|dbj|BAA09976.1| polyprotein [Hepatitis C virus]
Length = 191

Score = 73.9 bits (180), Expect = 8e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVVEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1480851|gb|AAB88630.1| polyprotein
Length = 191

Score = 73.9 bits (180), Expect = 8e-13
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|532383|gb|AAA21038.1| polyprotein
Length = 191

Score = 73.9 bits (180), Expect = 9e-13
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|532463|gb|AAA21078.1| polyprotein
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLT PASA
Sbjct: 156 RALEDGINYATGNLPGCSFSIFLLALLSCLTVPASA 191

☐ >gi|21670857|dbj|BAC02438.1| polyprotein [Hepatitis C virus type 1b]
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1765866|dbj|BAA13614.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 73.6 bits (179), Expect = 1e-12
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|3283982|gb|AAC25417.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1765875|dbj|BAA13619.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 73.6 bits (179), Expect = 1e-12
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R IEDGINYATGNLPGCSFSIFLLALLSCLTTPASA

Sbjct: 156 RVIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >[gi|1765877|dbj|BAA13620.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 73.6 bits (179), Expect = 1e-12
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R IEDGINYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >[gi|18148524|dbj|BAB83298.1|](#) core protein [Hepatitis C virus]
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >[gi|21670875|dbj|BAC02447.1|](#) polyprotein [Hepatitis C virus type 1b]
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >[gi|1009265|dbj|BAA07093.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 73.6 bits (179), Expect = 1e-12
Identities = 34/36 (94%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDG+NYATGNLPGCSFSIF+LALLSCLTTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFILALLSCLTTPASA 191

☐ >[gi|1009267|dbj|BAA07094.1|](#) core, env, and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 73.2 bits (178), Expect = 1e-12
Identities = 34/36 (94%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
RAIEDG+NYATGNLPGCSFSIF+LALLSCLTTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFILALLSCLTTPASA 191

☐ >gi|18148498|dbj|BAB83285.1| core protein [Hepatitis C virus]
gi|18148502|dbj|BAB83287.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|18148512|dbj|BAB83292.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|21670879|dbj|BAC02449.1| polyprotein [Hepatitis C virus type 1b]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|18148514|dbj|BAB83293.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|18148506|dbj|BAB83289.1| core protein [Hepatitis C virus]
gi|18148508|dbj|BAB83290.1| core protein [Hepatitis C virus]
gi|18148516|dbj|BAB83294.1| core protein [Hepatitis C virus]

<u>gi 18148518 dbj BAB83295.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148520 dbj BAB83296.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148522 dbj BAB83297.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148526 dbj BAB83299.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148528 dbj BAB83300.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148530 dbj BAB83301.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148532 dbj BAB83302.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148536 dbj BAB83304.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148618 dbj BAB83345.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148721 dbj BAB83392.1 </u>	core protein [Hepatitis C virus]
<u>gi 18148727 dbj BAB83395.1 </u>	core protein [Hepatitis C virus]

Length = 191

Score = 73.2 bits (178), Expect = 1e-12
 Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
 R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
 Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|18148725|dbj|BAB83394.1| core protein [Hepatitis C virus]
 Length = 191

Score = 73.2 bits (178), Expect = 1e-12
 Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
 R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
 Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|18148534|dbj|BAB83303.1| core protein [Hepatitis C virus]
 Length = 191

Score = 73.2 bits (178), Expect = 1e-12
 Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
 R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
 Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

☐ >gi|1480853|gb|AAB88631.1| polyprotein
 Length = 191

Score = 73.2 bits (178), Expect = 1e-12
 Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTTPASA 54
 R +EDG+NYATGNLPGCSFSIFLLALLSCLTTPASA
 Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTTPASA 191

Get selected sequences

Select all

Deselect all

Database: All non-redundant GenBank CDS
translations+PDB+SwissProt+PIR+PRF excluding environmental samples
Posted date: May 11, 2004 12:59 AM
Number of letters in database: 593,787,773
Number of sequences in database: 1,798,171

Lambda	K	H
0.323	0.138	0.415

Gapped

Lambda	K	H
0.267	0.0410	0.140

Matrix: BLOSUM62

Gap Penalties: Existence: 11, Extension: 1

Number of Hits to DB: 11,208,408

Number of Sequences: 1798171

Number of extensions: 208187

Number of successful extensions: 723

Number of sequences better than 10.0: 234

Number of HSP's better than 10.0 without gapping: 234

Number of HSP's successfully gapped in prelim test: 0

Number of HSP's that attempted gapping in prelim test: 488

Number of HSP's gapped (non-prelim): 235

length of query: 54

length of database: 593,787,773

effective HSP length: 27

effective length of query: 27

effective length of database: 545,237,156

effective search space: 14721403212

effective search space used: 14721403212

T: 11

A: 40

X1: 16 (7.5 bits)

X2: 38 (14.6 bits)

X3: 64 (24.7 bits)

S1: 41 (22.0 bits)

S2: 68 (30.8 bits)